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SHOW NEW MODELS OF MACHINE TOOLS AT LEIPZIG FAIR

EXHIBIT NEW JIG-BORING MACHINE, LATHES -- Berlin, Taegliche Rundschau, 4 - 11 Mar 51

At the 1951 Leipzig Spring Fair, the WMW (Federation of People-Owned Enterprises for Machine-Tool Construction) exhibited a jig-boring machine with an optical device, known as model BL2, which was developed by the Carl Zeiss Works in Jena. This model was built according to the most recent scientific developments to meet the demand for high-quality drills and other devices employed in the mass production of machines.

Operation of the BL2 machine is completely centralized, i.e., the worker can reach and regulate all levers from his station without waste of time and motion. For turning out small pieces, the machine can also be operated from a sitting position.

Designer Poduss (fnu) of the Hille Feinstmaschinenbau (precision machine construction) in Dresden, who collaborated with factory manager Kunze (fnu) in constructing the machine, pointed out that the jig-boring machine is driven by a single-revolution flange motor, hooked up to an infinitely variable transmission, spur-gear transmission, and V-belt.

A turret lathe with spindle head has been introduced by the WMW Pittler Werkzeugmaschinenfabrik (machine-tool works) in Leipzig. Designer Hermann (fnu) explained that his machine is being turned out in two models, one with the normal 1,200 and another special one with 2,000 revolutions per minute. Loss of time is eliminated by central operation and quick change of the speeds and thrusts of the drill spindle. A special characteristic is the spindle head, which is designed to function as a tool carrier. It is provided with 16 tool fittings, the uppermost hole of which is aligned with the center of the spindle. Under normal conditions production can be upped as much as 50 percent by the use of this machine.

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In addition to the roll-turning machine of the Meuselwitz WMW Maschinenfabrik (machine works), which was introduced in 1950, a larger model, the DW-500, was shown. This last mentioned lathe was designed by engineers Herbert Sommer and Werner Sojka. It meets all standards of economy, dependability, and precision. The sturdy construction of the machine ensures smooth operation, free from vibration.

The engine and feed-shaft lathes of the Berlin Werkzeugmaschinenfabrik (machine-tool work) are based on new designs. These mechanisms are equipped with tube-controlled switches. The plexiglass switch box and the principle of switching were developed in cooperation with the Federation of People-Owned Plants for Radio and Telecommunication Enterprises. The automatic twist-drill center-grinding apparatus of the WMW Maschinenfabrik in Berlin-Treptow is also a new development. Section chief Schoenfeld (fnu) of the WMW pointed out that it is possible for one man to operate from two to four machines of this type. All he has to do is to insert, remove, and change the drills.

The knee-type milling machines designed by chief engineer Panzner (fnu) of the WMW Wanderer Fraesmaschinenfabrik (milling-machine works) in Chemnitz fulfill the urgent need for modern machines capable of meeting all the requirements of the most up-to-date high-speed milling techniques. Panzner explained that the single-lever control and the new speed selector with which this type of milling machine is equipped can be operated even by unskilled workers who have had only a short training period. The simple operation of the control equipment and rapid tool change through the use of swinging arm brackets reduce the pickup and stopping time to a minimum.

The WMW Maschinenfabrik in Zerbst has brought out new models of facing lathes for the processing of large, bulky pieces with a diameter of from 3,000-5,000 millimeters, automatic circular grinding machines, and automatic twist drill grinders. A large assortment of cutting tools and dies, carbide tools, grinding disks, and corundum was also shown.

DEVELOP NEW-TYPE ELECTRODES -- Berlin, Taegliche Rundschau, 2 Mar 51

The people-owned Agil Works in Berlin-Oberschoeneweide has developed 12 new types of welding electrodes.

Practical experiments conducted with a new deep-welding electrode showed an increase of 325 percent over past welding norms. A newly developed contact electrode proved to be 30-40 percent more economical than the types used heretofore.

Domestic production of electrodes Ti 16 and Ti 18 will greatly lessen dependence on imports of this item from foreign markets. The necessary raw materials are in abundant supply in the German Democratic Republic.

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